## TOPIC LIGHT CO., LTD

# TPL308 LED PAR SERIES Manual



## LED Mini Studio PAR RGBW 3x8W 4in1

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#### 1. Safety instructions



- This device is suitable for indoor use (not outdoors) only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

#### 1.1. For safe and efficient operation

#### Be careful with heat and extreme temperature

Avoid exposing it to direct rays of the sun or near a heating appliance. Not put it in a temperature bellow 32°F /0°C, or exceeding 104°F /40°C.

#### Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust. Containers with water should not be placed on the set.

#### Keep away from sources of hum and noise

Such as transformer motor, tuner, TV set and amplifier.

#### To avoid placing on un-stable location

Select a level and stable location to avoid vibration.

#### Do not use chemicals or volatile liquids for cleaning

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

#### If out of work, contact sales agency immediately

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

#### Take care with the power cable

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug. When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

#### Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

#### 2. Designated use

This device was developed for professional use on stages, in discos, theatres etc. The device is only approved for a connection up to 230V 50/60 Hz AC voltage and only for indoor use.

Regular breaks during operation increase the lifetime of your device.

Avoid convulsions or any form of forceful impact during the installation or the start-up of the device.

Make sure that the device is not exposed excessive heat, humidity or dust at the place of installation. Take care that no cables are lying around. You would endanger your own safety and also the safety of a third party.

It is not allowed to operate or store the device in an environment in which spray water, rain, humidity or fog is expected. Humidity or very high atmospheric humidity could reduce the isolation of the device and could cause deathly electric shocks. If you use fog devices the device has not be exposed to a direct smoke jet. There has to be a safety distance of at least 0,5m between this device and the fog machine. Make sure that the saturation of the fog has to enable a visibility of at least 10m.

The ambient temperature has to be between 0°C and +40°C. Avoid direct sunlight and close proximity to heaters. You have also to attend it during the transport in closed motor vehicles.

Operate the device not during thunderstorms. Surge voltages could destroy the device. Unplug the power supply during thunderstorms.

During the installation the use of the mounting bracket is obligatory.

Surrounding objects or surfaces should not be in contact with the device.

Make sure that during the installation and removal of the device the area below the place of installation is basically cordoned off. This also applies to implementation of service.

The device has basically been protected by a suitable safety.

Make familiar yourself with the functions of the device before start-up. People without the experience should not handle with the device. The most cause of functional disorder is inappropriate handling.

Do not use chemicals or volatile liquids for cleaning. Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

For transport use the original packing or designated accessory to avoid damages during the transport.

#### For reasons of safety unauthorized changes are forbidden.

A usage of the device which differs from usages which are described in this manual can cause damages of the device. In that case the warranty expires. Additional you should notice that every differed usage is related with dangers and can cause e.g. an electrical short, fire, electric shock or crash.

#### 2.1. Overhead installation



#### Danger of life!

You have to observe the regulations of BGV C1 (formerly VBG 70) and EN60598-2-17 Installations are to carry out by skilled personnel only.

The suspension devices have to be build and measured so they can withstand for an hour the tenfold of the payload without suffering a permanent detrimental deformation.

Basically installation has to be made by using a second separate suspension. This can be e.g. a suitable net. The second suspension must be designed and attached so no part of the installation can fall down in case of failure.

During construction, reconstruction and deconstruction unnecessary stay in the range of moving areas, on lightning bridges, under elevated work stations or any other danger zones is forbidden.

The operator is obliged to following safety-related and mechanical facilities:

- Before the first start-up or after critical changes before restarting it has to be checked by an expert.
- Review in the frame of the inspection test at least all four years by an expert. .
- Review by a qualified person at least once a year.

#### How to carry out the overhead installation:

In tidal fall you should install the device out of the lounge area of people

**IMPORTANT!** Overhead installation requires a high level of experience. This includes knowledge of calculating the payload, used installation material and safety inspections of the used material and the projector whereas the required experience is not limited to this. Do not try to carry out installation yourself under any circumstances if you are not qualified. Contact a professional installer. An inappropriate installation can lead to injuries and/or damaged properties.

It is not allowed to install the device in the grip area of people.

If the device may hang from the ceiling or from high beams, the use of truss systems is mandatory. The device may not be installed so it can swing freely in the room.

Please note: Crashing down items can cause serious injuries! Do not install the projector, if you doubt the safety of a possible installation form!

Before installation make sure that the mounting surface has the ability to carry the tenfold point load of the own weight of the device.

Mount the device with the mounting-bracket to your trussing system using an appropriate clamp.

During overhead installation the device must be always secured by a safety rope which is designed to hold the twelvefold weight of device. Only safety ropes with quick-release safety fastener elements may be used. Hang up the safety rope in the hole of the mounting bracket. Direct the rope over the truss or an appropriate fastening point. Hang up the end in the fastening element and tie up the locking nut. A safety rope once exposed to failing load or damaged may not be used furthermore.

The	maximum	dron	exceed	must	not	exceed	20cm
1116	IIIaxIIIIuIII	ulup	CACCCU	IIIuət	HUL	CACCEU	ZUCIII.

A safety rope once exposed to failing load or damaged may not be used furthermore. Adjust the desired inclination angle via the mounting bracket and tighten the screw

#### 3. Introduction

Thank you for buying the **Mini Studio PAR RGBW 3x8W 4in1**. It is a powerful device. For a successful installation and operation, please read this manual carefully.

#### 4. Connections

#### 4.1. Electrical connections

If you wish to change the power supply settings, see the chapter Appendix. Connect the fixture to the mains with the enclosed power cable and plug. The earth has to be connected.

Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	•

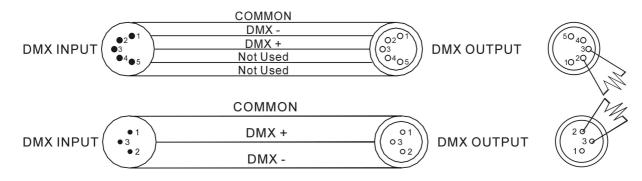
#### 4.2. DMX connections

To make a DMX512 connection go ahead like it is described in the picture. Make sure that you use shielded cable. 3pole or 5pole XLR cables are suitable.

Important! After the last device the line has to be terminated. In order to do this you have to solder a  $120\Omega$  resistor between the pins Data + and Data -. You can solder this end resistor on a 3pin or 5pin XLR: Plug this adapter into the DMX output of the device.

#### 4.3. DMX connection with terminator

Where the DMX cable has to run a long distance or the equipment is operated in an electrically noisy environment like a disco for installations, we recommend using a DMX terminator. This prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR connector with a 120  $\Omega$  resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the series. Please look to the bottom drawings.



#### 5. Control

Push MENU to reach the first menu and use UP/DOWN to get to submenu. To open submenu you have to push ENTER, here you can also reach other menu items with UP/DOWN buttons, confirm with ENTER. Push MENU to store your settings.

Note: If you have chosen a DMX mode you have to step back to ADDR and press ENTER, the DMX mode is activated.

#### 5.1. Structure of the menu

Menu	Submenu	Function		
Addr	A001-A512	Setting the DMX address.		
Shnd	Sh1-Sh9	Choose one of 9 automatic programs.		
SPEd	SP00-SP31	Setting the program speed slow-fast.		
	SL1	DMX Mode 1		
	SL2	DMX Mode 2		
SLAV	SL3	DMX Mode 3		
SLAV	SL4	DMX Mode 4		
	SL5	DM'X Mode 5		
	SLA	The device works as slave.		
SenS	Off	The sound-to-light mode is deactivated.		
SeliS	1-100	Setting the microphone sensitivity.		
Soud	Sou1	Color change in sound-to-light mode.		
Soud	Sou2	Color change with flash in sound-to-light mode.		
ALLC	0-255	Dimmer 0-100%		
rEd	r000-r255	Dimmer red 0-100%		
GrEE	G000-G255	Dimmer green 0-100%		
bLUE	b000-b255	Dimmer blue 0-100%		
Ult	U000.U255	Dimmer white 0-100%		
	ON	Display on		
Led	30	Display off after 30s		
Leu	60	Display off after 60s		
	90	Display off after 90s		
reset		Reset		
SIgn	blnd	If the DMX signals gets lost all values will be set to 0.		
	FrEE	If the DMX signal gets lost all values will be hold		

### 6. DMX chart

## 6.1. DMX mode 1 (1 channel)

Color macros  0 6 No function  7 13 Color 1  14 20 Color 2  21 27 Color 3  28 34 Color 4  35 41 Color 5  42 48 Color 6  49 55 Color 7  56 62 Color 8  63 69 Color 9  70 76 Color 10  77 83 Color 11  84 90 Color 12  91 97 Color 13  98 104 Color 14  105 111 Color 15  112 118 Color 16  119 125 Color 17  126 132 Color 18  133 139 Color 18  133 139 Color 19  140 146 Color 20  147 153 Color 21  154 160 Color 22  161 167 Color 23  168 174 Color 24  175 181 Color 25  182 188 Color 26  189 195 Color 27  196 202 Color 28  203 209 Color 29  210 216 Color 30  217 223 Color 31  224 230 Color 32	Channel	Value from	Value to	Function
7 13 Color 1 14 20 Color 2 21 27 Color 3 28 34 Color 4 35 41 Color 5 42 48 Color 6 49 55 Color 7 56 62 Color 8 63 69 Color 9 70 76 Color 10 77 83 Color 11 84 90 Color 12 91 97 Color 13 98 104 Color 14 105 111 Color 15 112 118 Color 16 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 31				Color macros
14 20 Color 2 21 27 Color 3 28 34 Color 4 35 41 Color 5 42 48 Color 6 49 55 Color 7 56 62 Color 8 63 69 Color 9 70 76 Color 10 77 83 Color 11 84 90 Color 12 91 97 Color 13 98 104 Color 15 112 118 Color 15 112 118 Color 16 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 31		0	6	No function
21 27 Color 3 28 34 Color 4 35 41 Color 5 42 48 Color 6 49 55 Color 7 56 62 Color 8 63 69 Color 9 70 76 Color 10 77 83 Color 11 84 90 Color 12 91 97 Color 13 98 104 Color 14 105 111 Color 15 112 118 Color 16 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 32		7	13	Color 1
28		14	20	Color 2
35		21	27	Color 3
42		28	34	Color 4
49 55 Color 7 56 62 Color 8 63 69 Color 9 70 76 Color 10 77 83 Color 11 84 90 Color 12 91 97 Color 13 98 104 Color 14 105 111 Color 15 112 118 Color 16 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 32		35	41	Color 5
56       62       Color 8         63       69       Color 9         70       76       Color 10         77       83       Color 11         84       90       Color 12         91       97       Color 13         98       104       Color 13         98       104       Color 14         105       111       Color 15         112       118       Color 16         112       118       Color 16         126       132       Color 18         133       139       Color 19         140       146       Color 20         147       153       Color 20         147       153       Color 21         154       160       Color 22         161       167       Color 23         168       174       Color 23         182       188       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217 <td></td> <td>42</td> <td>48</td> <td>Color 6</td>		42	48	Color 6
63 69 Color 9 70 76 Color 10 77 83 Color 11 84 90 Color 12 91 97 Color 13 98 104 Color 14 105 111 Color 15 112 118 Color 16 1 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 31		49	55	Color 7
70		56	62	Color 8
77 83 Color 11 84 90 Color 12 91 97 Color 13 98 104 Color 14 105 111 Color 15 112 118 Color 16 1 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 32		63	69	Color 9
84 90 Color 12 91 97 Color 13 98 104 Color 14 105 111 Color 15 112 118 Color 16 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 32		70	76	Color 10
91 97 Color 13 98 104 Color 14 105 111 Color 15 112 118 Color 16 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 32		77	83	Color 11
98		84	90	Color 12
105		91	97	Color 13
112		98	104	Color 14
1 119 125 Color 17 126 132 Color 18 133 139 Color 19 140 146 Color 20 147 153 Color 21 154 160 Color 22 161 167 Color 23 168 174 Color 24 175 181 Color 25 182 188 Color 26 189 195 Color 27 196 202 Color 28 203 209 Color 29 210 216 Color 30 217 223 Color 31 224 230 Color 32		105	111	Color 15
126       132       Color 18         133       139       Color 19         140       146       Color 20         147       153       Color 21         154       160       Color 22         161       167       Color 23         168       174       Color 24         175       181       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		112	118	Color 16
133	1	119	125	Color 17
140       146       Color 20         147       153       Color 21         154       160       Color 22         161       167       Color 23         168       174       Color 24         175       181       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		126	132	Color 18
147       153       Color 21         154       160       Color 22         161       167       Color 23         168       174       Color 24         175       181       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		133	139	Color 19
154       160       Color 22         161       167       Color 23         168       174       Color 24         175       181       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		140	146	Color 20
161       167       Color 23         168       174       Color 24         175       181       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		147	153	Color 21
168       174       Color 24         175       181       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		154	160	Color 22
175       181       Color 25         182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		161	167	Color 23
182       188       Color 26         189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		168	174	Color 24
189       195       Color 27         196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		175	181	Color 25
196       202       Color 28         203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		182	188	Color 26
203       209       Color 29         210       216       Color 30         217       223       Color 31         224       230       Color 32		189	195	Color 27
210       216       Color 30         217       223       Color 31         224       230       Color 32		196	202	Color 28
217       223       Color 31         224       230       Color 32		203	209	Color 29
224 230 Color 32		210	216	Color 30
			223	Color 31
		224	230	Color 32
231 237 Color 33		231	237	Color 33
238 244 Color 34			244	
245 255 Color 35		245	255	

## 6.2. DMX mode 2 (2 channels)

Channel	Value from	Value to	Function
			Color macros
	0	6	No function
	7	13	Color 1
	14	20	Color 2
	21	27	Color 3
	28	34	Color 4
	35	41	Color 5
	42	48	Color 6
	49	55	Color 7
	56	62	Color 8
	63	69	Color 9
	70	76	Color 10
	77	83	Color 11
	84	90	Color 12
	91	97	Color 13
	98	104	Color 14
	105	111	Color 15
	112	118	Color 16
1	119	125	Color 17
	126	132	Color 18
	133	139	Color 19
	140	146	Color 20
	147	153	Color 21
	154	160	Color 22
	161	167	Color 23
	168	174	Color 24
	175	181	Color 25
	182	188	Color 26
	189	195	Color 27
	196	202	Color 28
	203	209	Color 29
	210	216	Color 30
	217	223	Color 31
	224	230	Color 32
	231	237	Color 33
	238	244	Color 34
	245	255	Color 35
2	0	255	Dimmer 0-100%

## 6.3. DMX mode 3 (5 channels)

Channel	Value from	Value to	Function
1	0	255	Dimmer red LEDs 0-100%
2	0	255	Dimmer green LEDs 0-100%
3	0	255	Dimmer blue LEDs 0-100%
4	0	255	Dimmer white LEDs 0-100%
5	0	255	Dimmer 0-100%

### 6.4. DMX mode 4 (6 channels)

Channel	Value from	Value to	Function
1	0	255	Dimmer red LEDs 0-100%
2	0	255	Dimmer green LEDs 0-100%
3	0	255	Dimmer blue LEDs 0-100%
4	0	255	Dimmer white LEDs 0-100%
5	0	3	No function
o .	4	255	Strobe slow-fast
6	0	255	Dimmer 0-100%

## 6.5. DMX mode 5 (8 channels)

Channel	Value from	Value to	Function
1	0	255	Dimmer red LEDs 0-100%
2	0	255	Dimmer green LEDs 0-100%
3	0	255	Dimmer blue LEDs 0-100%
4	0	255	Dimmer white LEDs 0-100%
5	0	3	No function
5	4	255	Strobe slow-fast
6	0	255	Dimmer 0-100%
			Special functions
	0	31	No function
	32	63	Ramp up
	64	95	Ramp down
7	96	127	Ramp up/down
	128	159	Color fade
	160	191	Color change (3 colors)
	192	223	Color change (7 colors)
	224	255	Sound-to-light
8	0	255	Setting the speed or the microphone sensitivity

## 7. Technical data

Power supply	
Voltage	AC 110-240 V; 50/60 Hz
Power consumption max.	60 W
Light source	
LM type	LED 4in1
Color spectrum	RGBW
Power	24 W
Number / Power	3 x 8W
Optics	
Beam angle	25°
Controlling	
Sound-to-light	Yes
Automatic	Yes
Master-Slave	Yes
DMX512	Yes
Number of channels	1/2/5/6/8 channels
Hardware	
Protection class	IP20
Skill	Indoor
Dimensions (L/W/H)	155 x 200 x 270 mm
Weight	2,06 kg





